

**Health Facility Planning  
2006 Tri-Service Symposium**

***Healthcare for  
Homeland Security and  
Defense:  
One Mission***

**14 July 2006**



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# OVERVIEW

- **Homeland Security and Defense**
- **Department of Homeland Security**
- **Healthcare and Public Health Sector**
- **Influenza Pandemic Preparedness**
- **Questions**





# Homeland Security and Homeland Defense One Mission

***"But there is an overriding and urgent mission here in America today, and that's to protect our homeland. We have been called into action, and we've got to act."***

**President George W. Bush  
July 10, 2002**



**The Department of Defense established U.S. Northern Command in 2002 to consolidate under a single unified command existing missions that were previously executed by other military organizations.**

**The command's mission is homeland defense and civil support, specifically:**

- **Conduct operations to deter, prevent, and defeat threats and aggression aimed at the United States, its territories, and interests within the assigned area of responsibility; and**
- **As directed by the President or Secretary of Defense, provide defense support of civil authorities including consequence management operations. U.S. Northern Command plans, organizes, and executes homeland defense and civil support missions, but has few permanently assigned forces.**



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# Department of Homeland Security (DHS) History and Mission

- **Created by the Homeland Security Act of 2002**

- Activated on March 1, 2003
- Absorbed 22 agencies

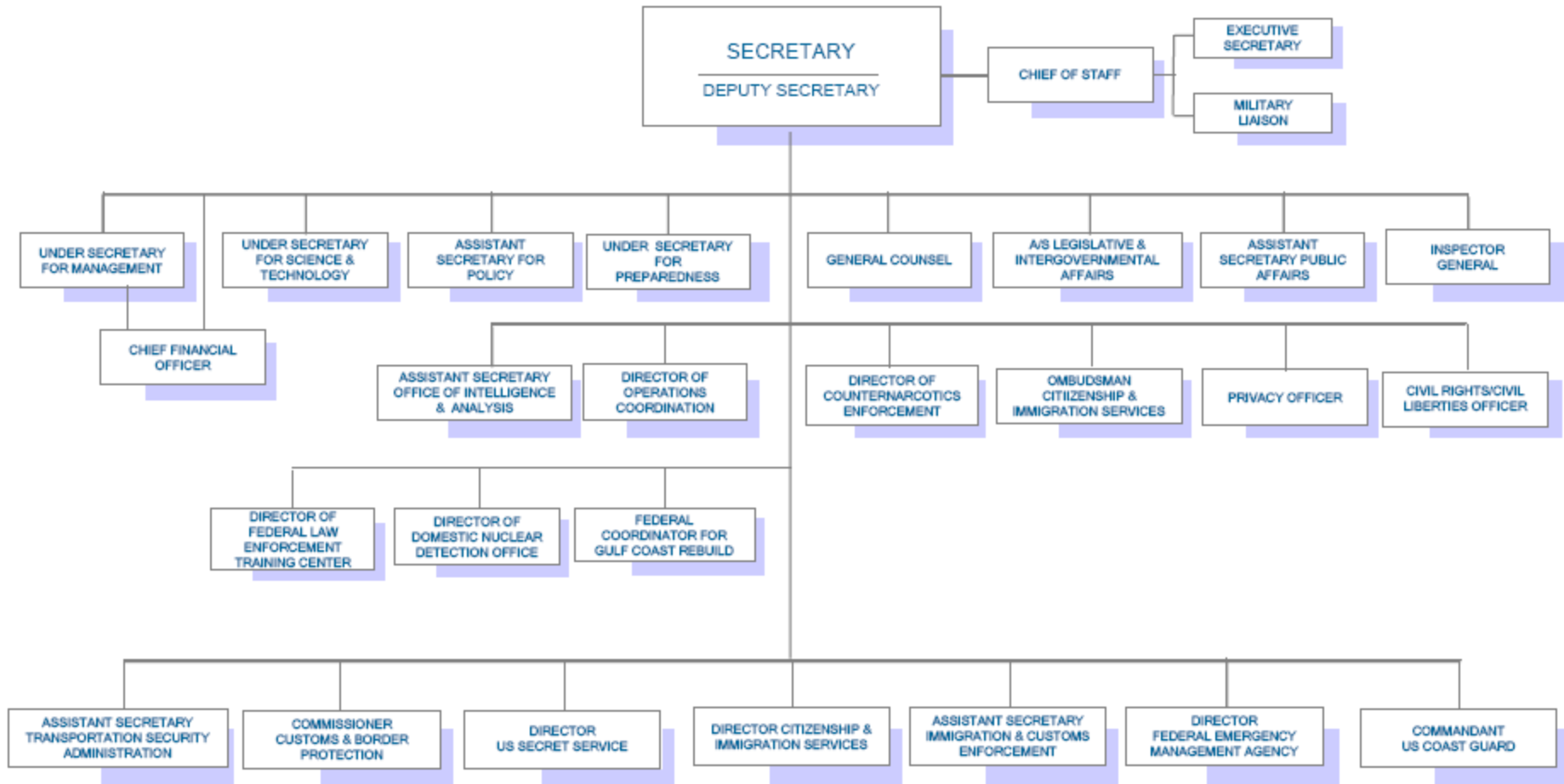
- **Mission**

- Prevent terrorist attacks within the United States
- Reduce America's vulnerability to terrorism
- Minimize the damage and recover from attacks that do occur



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# Department of Homeland Security Organization Chart



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# DHS Strategic Goals

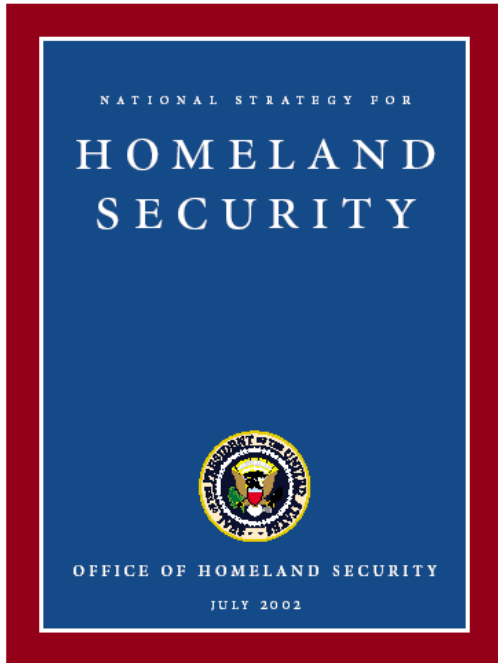
- **Awareness** -- Identify and understand threats, assess vulnerabilities, determine potential impacts and disseminate timely information to our homeland security partners and the American public.

- **Prevention** -- Detect, deter and mitigate threats to our homeland.

- **Protection** -- Safeguard our people and their freedoms, critical infrastructure, property and the economy of our Nation from acts of terrorism, natural disasters, or other emergencies.

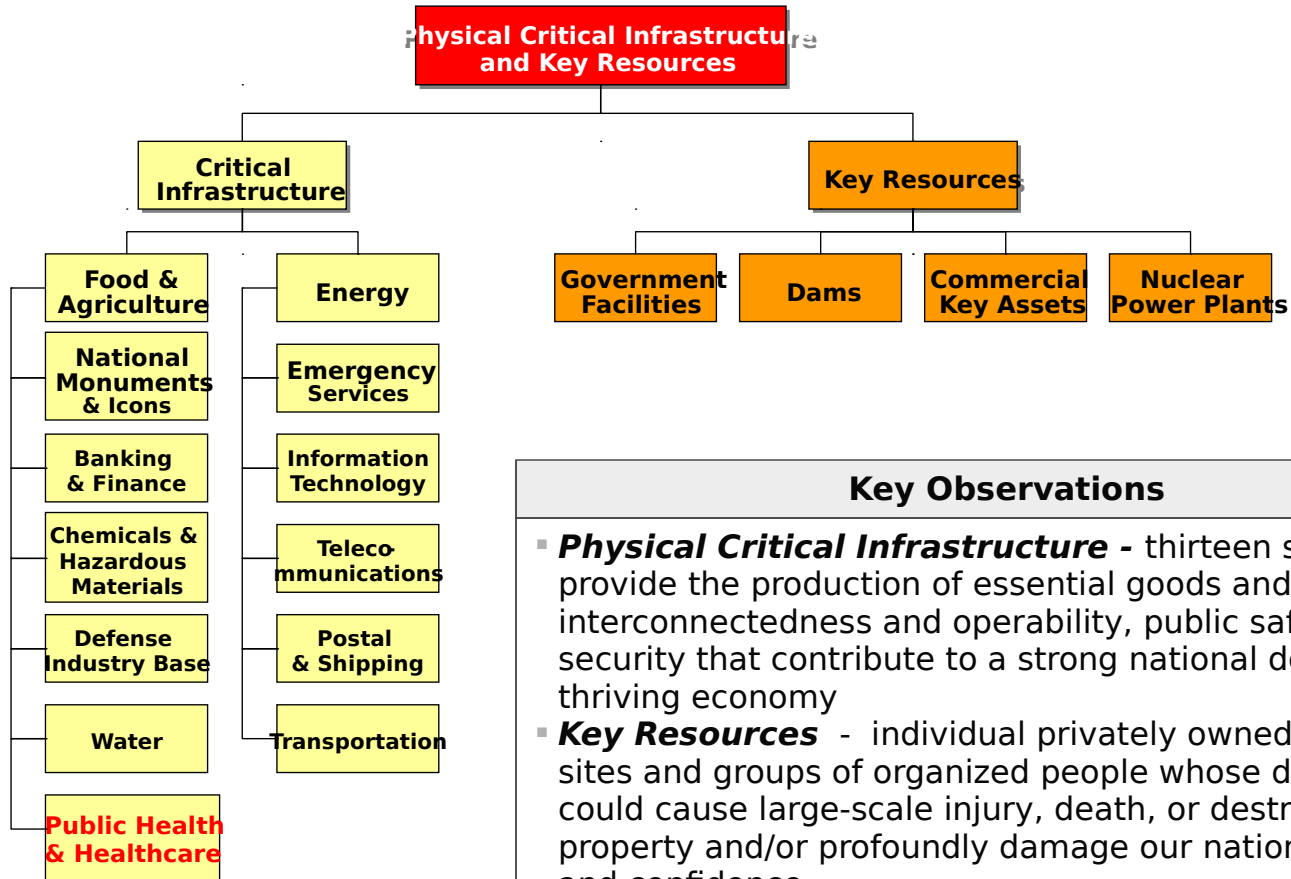
- **Response** -- Lead, manage and coordinate the national response to acts of terrorism, natural disasters, or other emergencies.

- **Recovery** -- Lead national, state, local and private sector efforts to restore services and rebuild communities after acts of terrorism, natural disasters, or other emergencies.



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# 17 Critical Infrastructures and Key Resources





THE NATIONAL STRATEGY FOR  
THE PHYSICAL PROTECTION  
OF CRITICAL INFRASTRUCTURES  
AND KEY ASSETS



F E B R U A R Y 2 0 0 3



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Interim National  
Infrastructure  
Protection Plan

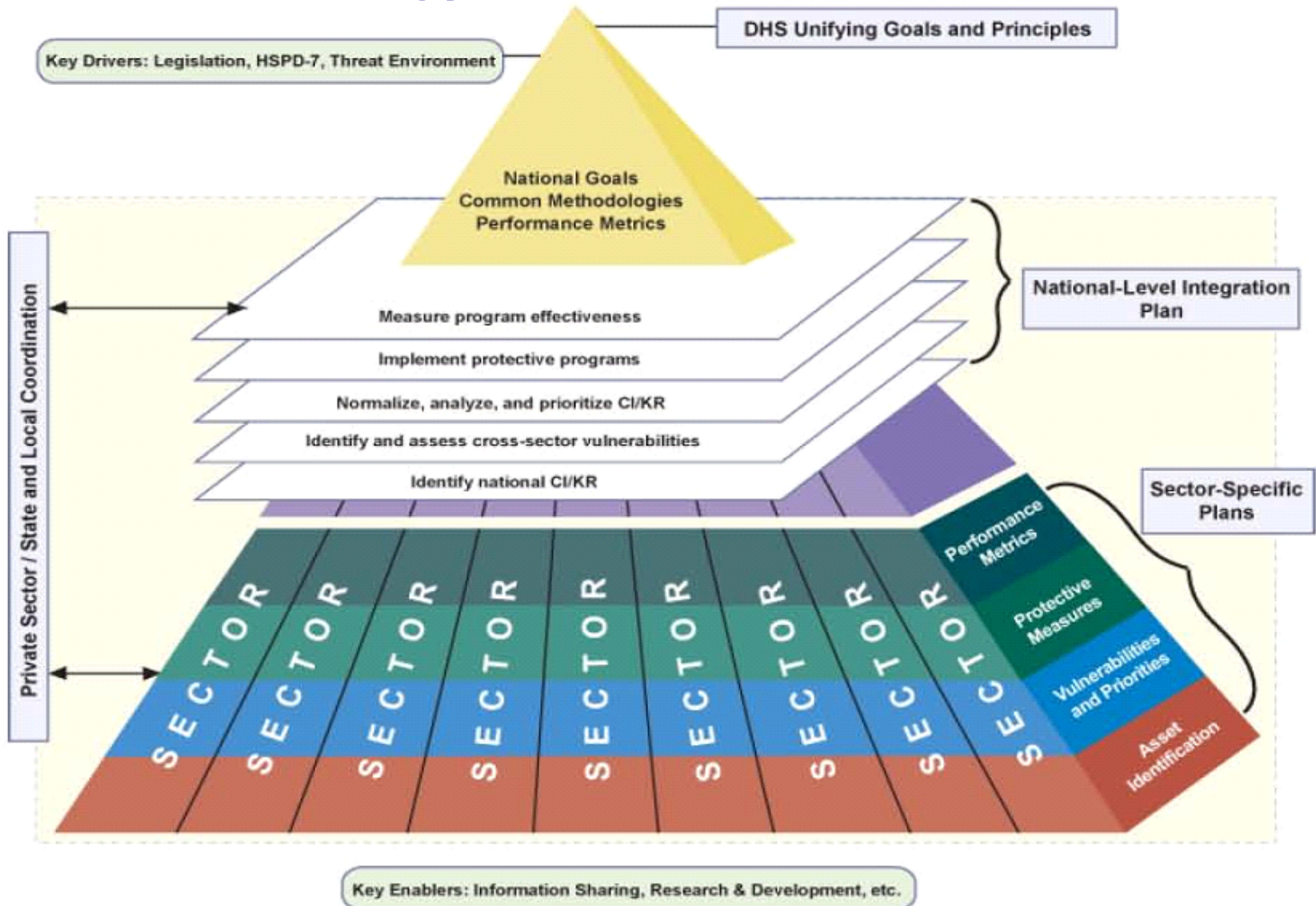
February 2005



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# National Infrastructure Protection Plan (NIPP) Strategy



**RISK** =  $f(\text{Threat} + \text{Vulnerability} + \text{Consequence})$



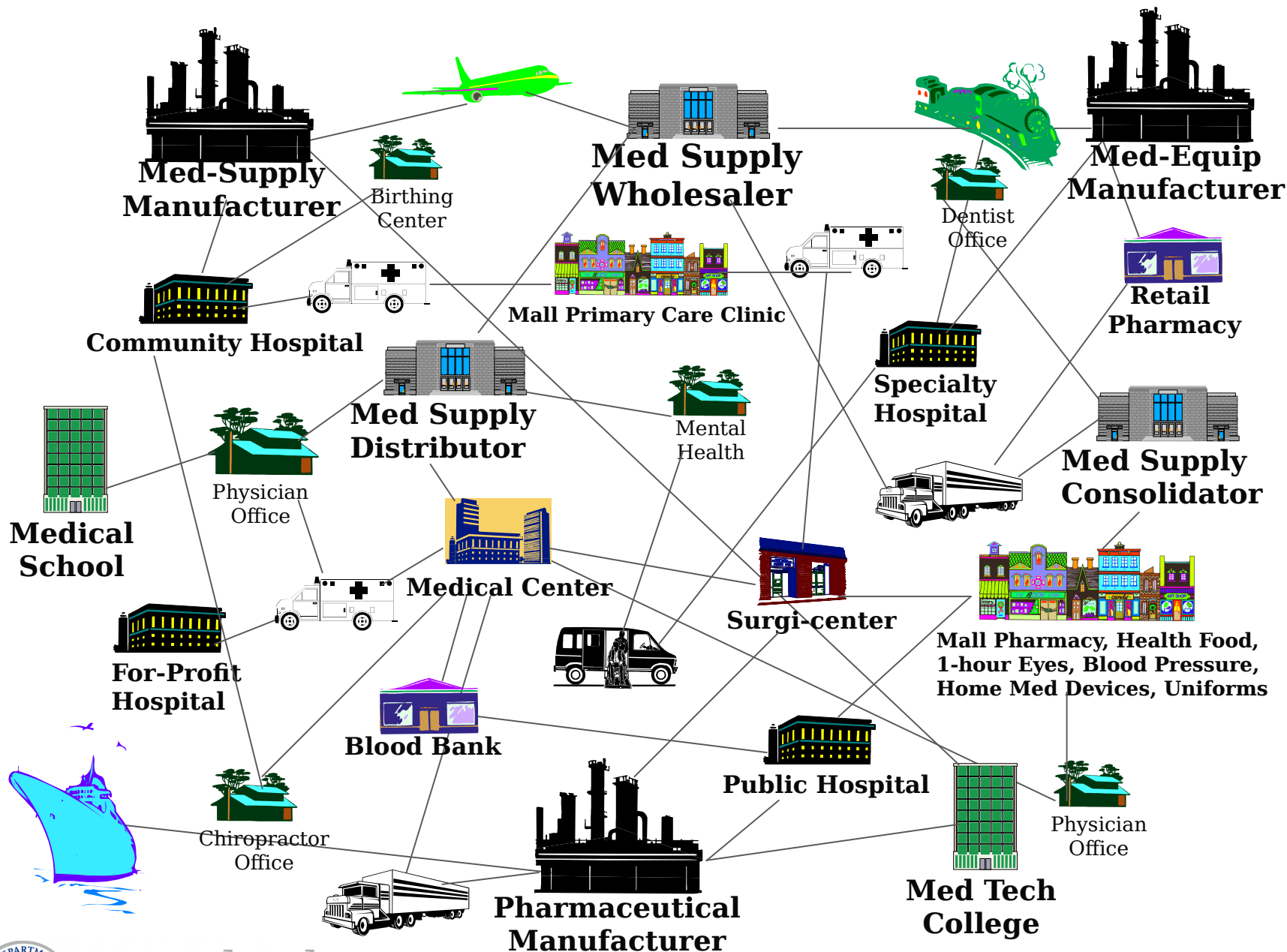
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# Healthcare and Public Health Sector



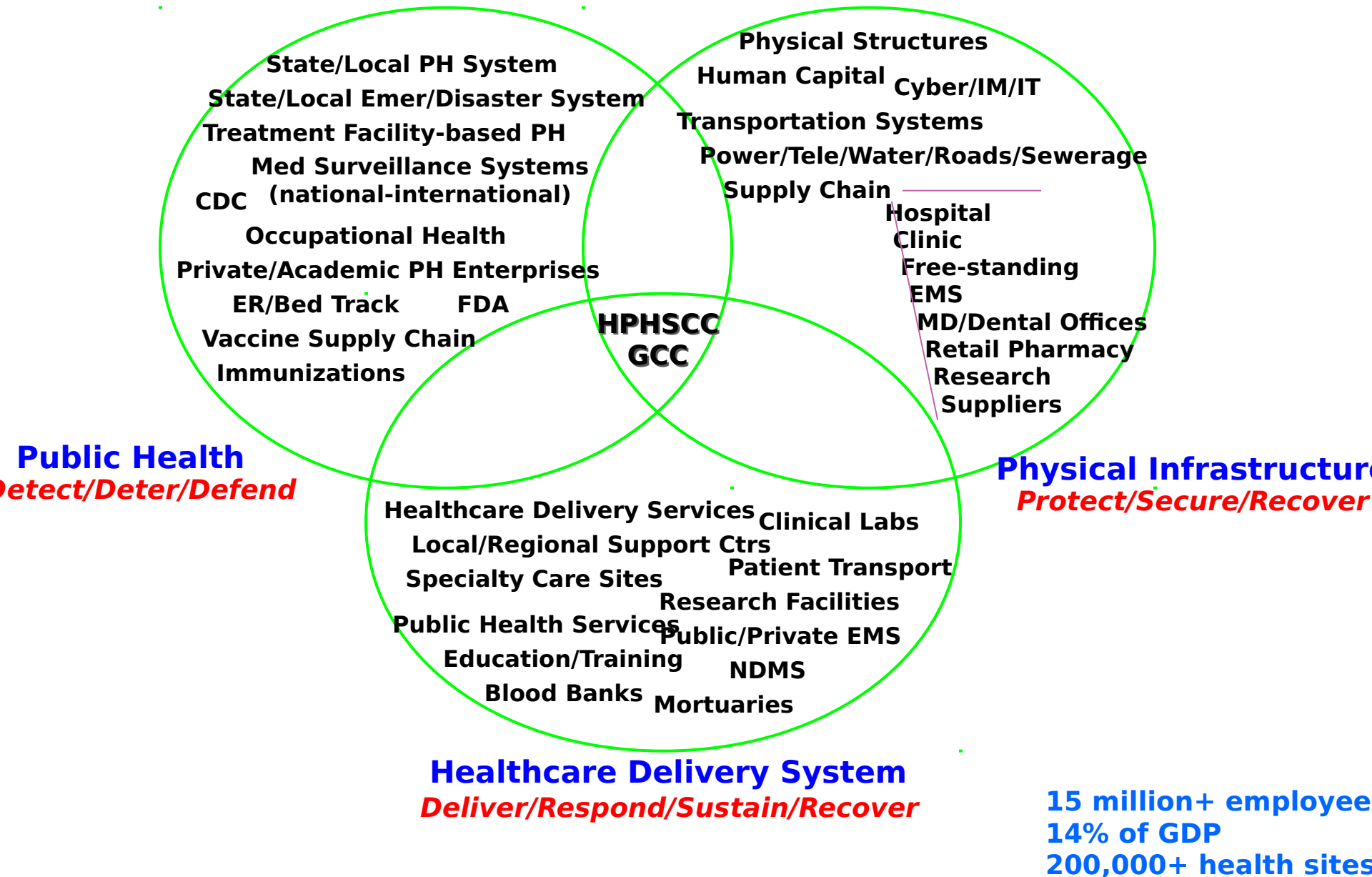
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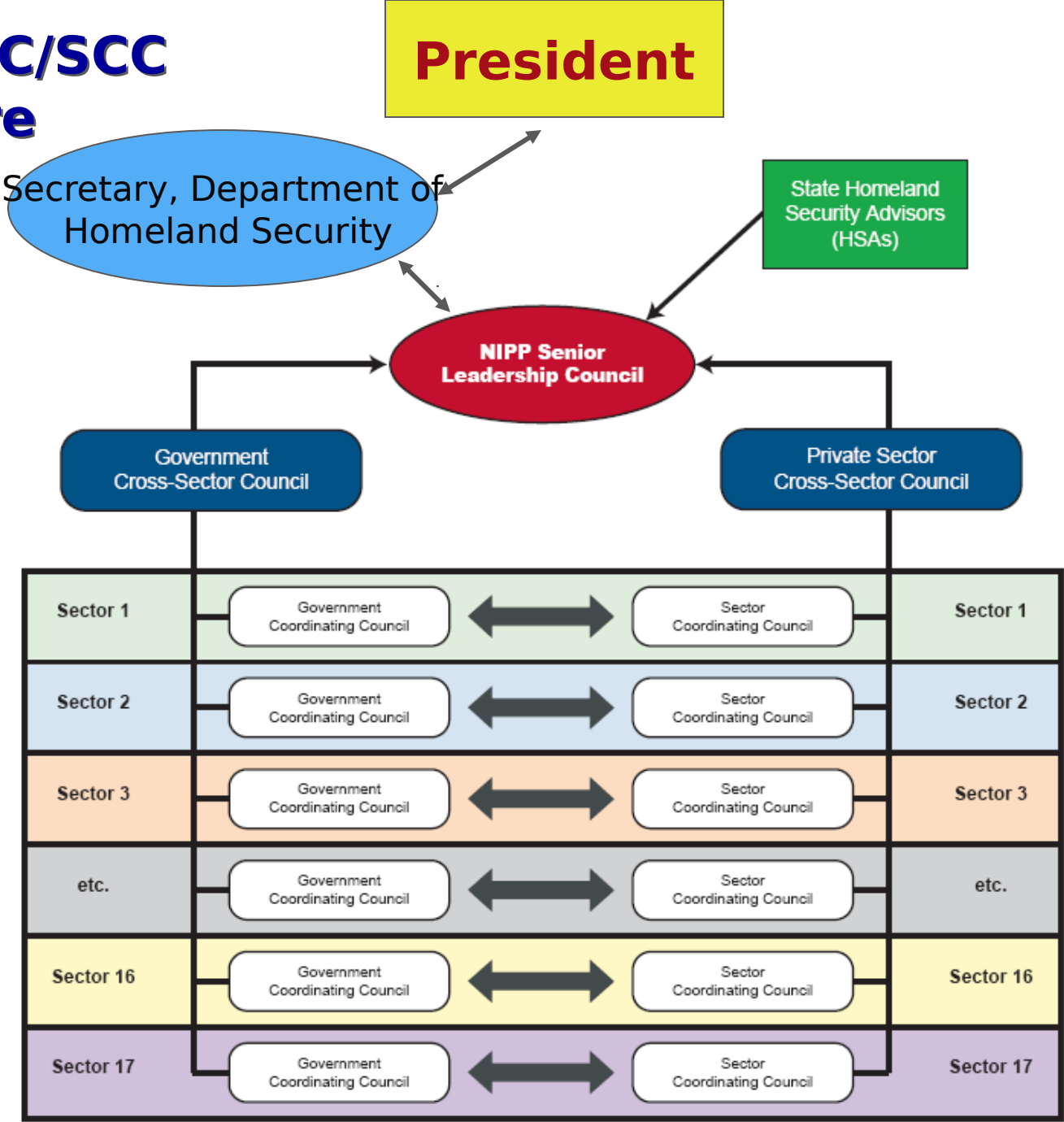
# Health Sector CIP Network

# HEALTH SECTOR PRIORITIES MODEL





# NIPP/GCC/SCC Structure



# National Healthcare and Public Health Sector Organizational Structure



## Public Sector

**Healthcare and Public Health  
Government Coordinating Council  
(HPHGCC)**  
Federal, State, Local and Tribal

## Private Sector

**Healthcare and Public Health  
Sector Coordinating Council  
(HPHSCC)**

ISAC/ISAM

### Public Health

#### Potential Members

Association of State and Territorial Health Officials (ASTHO)  
National Association of City and County Health Officials (NACCHO)  
Indian Health Services (IHS) Tribal Council

#### Sub-Group

Infectious Disease Informatics Working Group

### Healthcare Delivery

#### Potential Members

Department of Veterans Affairs (VA)  
Department of Defense (DoD)

### Federal Partners

#### Potential Members

Department of Health and Human Service (HHS)  
Department of Agriculture (USDA)  
Department of Defense (DoD)  
Department of Energy (DOE)  
Department of Homeland Security (DHS)  
Department of the Interior (DOI)  
Department of Justice (DOJ)  
Department of Labor (DOL)  
Department of State  
Department of Transportation (DOT)  
Department of Veterans Affairs (VA)  
U.S. Agency for International Development (USAID)  
Environmental Protection Agency (EPA)  
General Services Administration (GSA)  
US Postal Service (USPS)  
American Red Cross

### Cyber & Physical Security Sub-Council (CPS)

Addresses infrastructure protection issues related to cyber security and physical protection of facilities.

Comprised of 15 Firms/Agencies and 2 Associations

### Occupational Health Sub-Council (OH)

Addresses infrastructure protection issues related to workforce and workplace protection.

Comprised of 20 Firms/Agencies and 6 Associations

### Medical Materials Sub-Council (MM)

Addresses infrastructure protection and distribution issues related to health equipment and supplies including manufacturing, transportation, warehouses and distribution centers.

Comprised of 6 Firms/Agencies and 2 Associations

### Pharm-Bio Sub-Council (PB)

Addresses infrastructure protection issues related to pharmaceutical / biotechnology products preparation, storage transportation.

Comprised of 5 Firms/Agencies and 2 Associations

### Health Professionals Sub-Council (HP)

Addresses infrastructure protection issues related to training, alerting and developing response registries.

Comprised of 5 Associations

### Emergency Medical Services Sub-Council (EMS)

Addresses infrastructure protection issues related to training, alerting and developing emergency services response.

Comprised of 4 Associations and 4 Firms

### Medical Systems Sub-Council (MS) Future

Addresses systems challenges to infrastructure protection, alerting, emergency response, surge capacity, recovery and personnel issues.

Comprised of 2 Associations and 8 Firms

### Other Sub-Councils Future

Possible: Psych/Soc Svcs Research Academic NGOs

**Food and Ag Sector  
Coordinating  
Council**

**Chemical Sector  
Coordinating  
Council**

**Emergency  
Services Sector  
Coordinating  
Council**





You are Logged in as:  
**Health Expert**

HOME Incident Reporting Events Calendar Documents Collaboration Discussions Site Directory

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Incident Reporting

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Discussions

Events Calendar

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Site Map

Portal Search

Current Inter-Agency Documents in Development/Process

Urgent Notifications:

- ALERT: (Jan 31 2005 10:36AM)** FDA Issues Nationwide Alert on IV Flush Brand of Preloaded Syringes Containing Heparin or Sodium Chloride Intravenous Catheter Flushes.
- DHS Advisory:** (Jul 21 2004 10:36AM) President Bush signs Project Bioshield Act of 2004. <read more>
- CDC Notification:** (Jan 27 2005 11:21AM) CDC Announces New Strategies to Promote Continued Influenza Vaccination. Details available on CDC website <http://www.cdc.gov/od/oc/media/transcripts/t050127.htm>
- EPA Advisory:** (Oct. 15, 2004) Water Inspection Finds Lead Levels in Drinking Water Safe to Use in U.S.
- EPA Alert:** (Nov 9 2004 10: 30AM) Employee observed motorcyclist photographing water

Recently Updated Products

Owner	Type	Title	Updated
NACCHO	text	Lead_Advisory.doc	11/09/2004 12:00PM
CDC	text	Daily_Brief.doc	11/17/2004 5:50PM
HSIN-HS	image	gunny3.gif	11/16/2004 4:37PM
EPA	pdf	impact_study.pdf	11/01/2004 3:28P

Upcoming events:

- GCC Teleconference** Feb 21, 2005
- Joint SCC & GCC Meetings** Apr 19, 2005
- Medical Materials Bi-weekly** Jun 04, 2005
- USDP & Working Group** Dec 08, 2005

Current Inter-Agency Documents in Development/Process

- DHS Advisories
- FEMA Advisories
- CDC Advisories

THREAT ADVISORY

ELEVATED

Significant Risk of Terrorist Attacks.

HOMELAND SECURITY ADVISORY SYSTEM

SEVERE  
SEVERE RISK OF TERRORIST ATTACKS

HIGH  
HIGH RISK OF TERRORIST ATTACKS

ELEVATED  
SIGNIFICANT RISK OF TERRORIST ATTACKS

GUARDED  
GENERAL RISK OF TERRORIST ATTACKS

LOW  
LOW RISK OF TERRORIST ATTACKS

Terrorism Related News Feed

Automatically Updated News Links Will be Shown Here

Terrorism Related Links

Terrorism Related Web Links Will be Shown Here

# Major initiatives underway as part of an integrated strategy



- **BioShield:** to speed the development of medical countermeasures



- **BioSense:** to develop a national health surveillance system



- **BioWatch:** to develop a national urban environmental monitoring system
- **Integrated Biosurveillance:** to integrate human, animal, plant surveillance with monitoring of the air, food, and water and with intelligence data to provide overall



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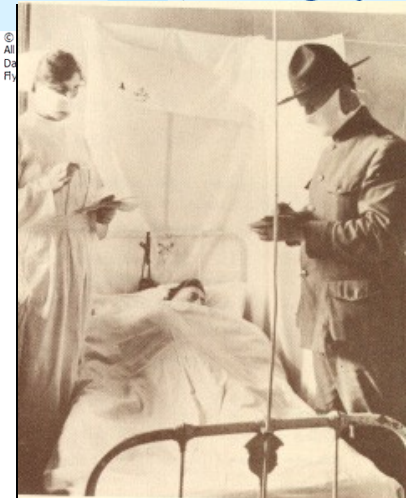
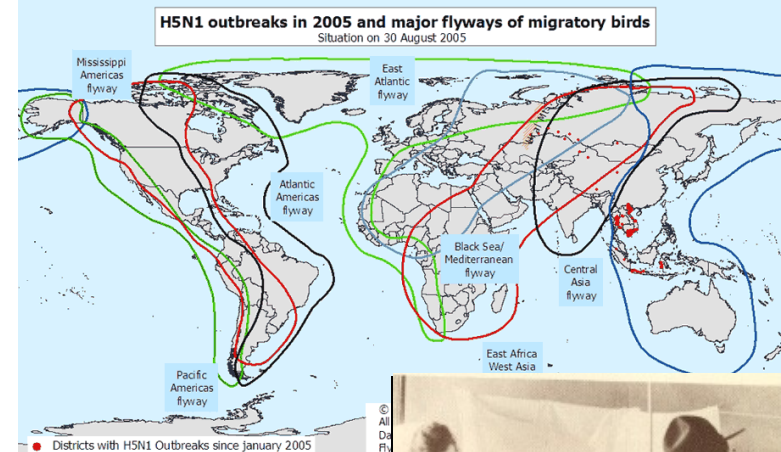


PHOTO AMERICAN RED CROSS

Alternating Heads of Beds and  
Masks, Supposed Preventives

# Pandemic Planning & Preparedness

- Reduce morbidity and mortality
- Mitigate social and economic disruption



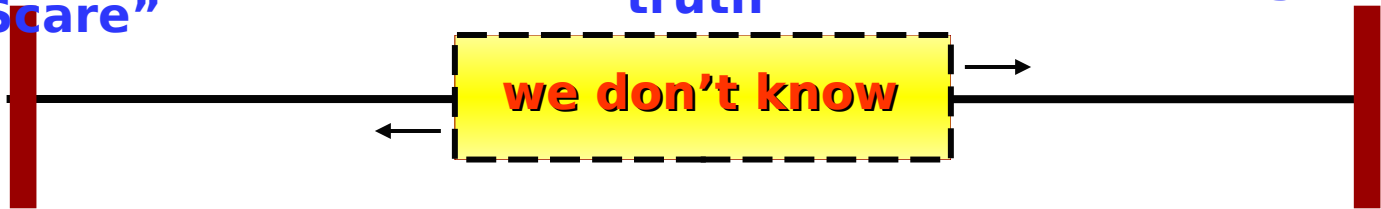
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# Reports on Pandemic Influenza...?

**“Just Another Government Scare”**

**“truth”**

**“We’re All Going to Die”**



***"By failing to plan, you are planning to fail" - Ben Franklin***

**"Think of a fast-moving highly contagious disease that wipes out 5 per cent of the world population (50 million people). Half a million of them in the U.S. ...bodies pile up in the streets. There aren't enough morticians to bury the dead. Nor are there enough doctors and nurses to tend to the sick. The churches close, the schools shut. Telecommunications and transportation grind to a halt. The public succumbs to hysteria and panic. Police protection fails. Order decays. Productivity dives. Sounds like a scene from a science fiction film, doesn't it? But what if I told you, it already happened? What if I told you it was the pandemic flu that swept across America and around the globe in 1918? Or if I told you that this glimpse into the past might be a preview to our future. An avian flu pandemic is no longer a question of if, but a question of when."**

**Senator Bill Frist, Princeton, November 11, 2005**



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# Response

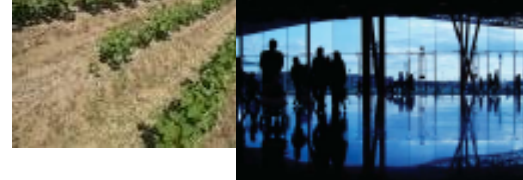
## *Equal Parts...*

Healthcare & Public Health (HHS) Critical/Essential Infrastructure (DHS)

- **Protect**
- **Prepare**
- **Respond**



- **Prepare**
- **Respond**
- **Sustain**
- **Recover**



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# WHAT IF...

## HHS Estimates from Previous Pandemics

Characteristic	Moderate (1958/68 like)	Severe (1918-like)
Illness	90 million (~30 percent)	90 million (~30 percent)
Outpatient medical care	45 million (~50 percent)	45 million (~50 percent)
Hospitalization	865,000	9,900,000
ICU care	128,750	1,485,000
Mechanical ventilation	64,875	742,500
Deaths	209,000	1,903,000

[www.pandemicflu.gov/plan/pandplan.html](http://www.pandemicflu.gov/plan/pandplan.html)



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# Key Health Planning

## Assumptions:

### *how will these affect businesses?*

- **Vaccines:** No medical “silver bullet,” vaccines and antiviral drugs will be unavailable or not in sufficient quantities to treat most workers for at least the first wave.
- **Absenteeism:** Dramatic worker absenteeism at all levels (30-50 percent), from top management through front-line worker (e.g. illness, ill family member care, death, child care due to school closings, and worried well).
- **Scope:** Near-simultaneous outbreaks will rapidly sweep across the nation involving both urban and rural populations.
- **Duration:** 6-8 weeks per wave per community, with multiple waves at 3-6 month intervals over a period of 12-18 months or more.



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# Pandemic Disease Containment

## Strategies: *what might these imply for businesses?*

- **Isolation and Quarantine:** isolation is employed to stop the spread of illness by separating persons with specific infectious illnesses in their homes or designated healthcare facilities. Quarantine refers to the separation and restriction of movement of persons who, while not yet ill, have potentially been exposed to an infectious agent.
- **Social Distancing:** could include modifying face-to-face employee encounters (e.g., placing moratoriums on handshaking, substituting teleconferences for face-to-face meetings, staggering breaks, posting infection control guidelines); establishing flexible work hours or worksite, (e.g., telecommuting); and social distancing between employees and customers to maintain a three-foot spatial separation.
- **Closing Places of Assembly:** closing schools, churches, sporting events and gaming venues for the duration of pandemic wave?
- **“Snow Days” and/or Furloughing Non-Essential Workers:** closing all non-essential businesses and/or furloughing non-essential workers for the duration of a pandemic wave.
- **Restricted Movement:** significantly restricting travel across international, national, state and local borders for personnel and goods on all types of ground/air/sea transport.



# PANDEMIC INFLUENZA PLANNING TOOLKIT

## PandemicFlu.gov Avian Flu.gov



Critical Infrastructure  
& Key Resources (CI/KR)  
Pandemic Influenza  
Sector Guidelines

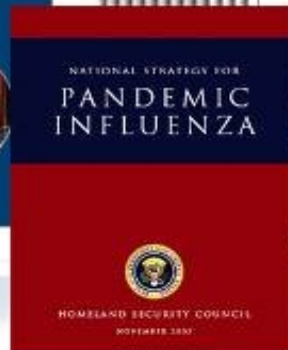
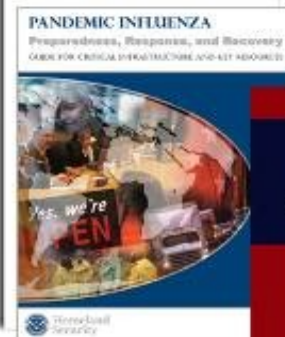
CI/KR Sector-Specific  
Pandemic Influenza  
Business Planning  
Essential Considerations

Business Pandemic Influenza Planning Checklist

State & Local Pandemic Influenza  
Planning Checklist

Colleges and Universities Pandemic  
Influenza Planning Checklist

Pandemic Influenza Planning: Guide for  
Individuals and Families



# QUESTIONS??



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